

PB-0017 US

<110> Walker, Michael G.  
van der Spek, Peter J.  
Kremer, Andreas  
Murry, Lynn E.

<120> CELL DIFFERENTIATION cDNAs INDUCED BY RETINOIC ACID

<130> PB-0017 US

<140> To Be Assigned

<141> Herewith

<160> 7

<170> PERL Program

<210> 1

<211> 1301

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 238040

<400> 1

agagccacag ataccctacc cggagcccac ctggccaccc ccgctcagtg cccccagggt 60  
cccctaccac tcctcagtcg tctccgtcac ccggcctgtg gtggtctctg ccacgcatcc 120  
cacactgcct tctgcccacc agcctcctgt gatccctgcc acacaccacag ctttgtcccg 180  
tgaccaccag atccccgtga tgcgagccaa ctatccagat ctgccttctg cctaccaacc 240  
cgggtattctc tctgtctctc attcagcaca gcctcctgcc caccagcccc ctatgatctc 300  
aaccaaatat ccggagctct tccctgccc ccagtccccc atgtttccag acaccgggt 360  
cgctggcacc cagaccacca ctcatttgcc tgggaatcca cctaaccatg cccctctggt 420  
caccaccctc ggtgcccagc taccctctca agccccagat gcccttgctc tcagaaccca 480  
ggccaccag cttcccatta tcccactgc ccagccctct ctgaccacca cctccaggtc 540  
ccctgtgtct cctgcccac aaatctctgt gcctgctgcc acccagcccg cagccctccc 600  
caccctcctg ccctctcaga gcccactaa ccagacctca cccatcagcc ctacacatcc 660  
ccattccaaa gccccccaaa tcccaggga agatggcccc agtcccaagt tggccctgtg 720  
gctgccctca ccagctccca cagcagcccc aacagccctg ggggaggctg gtcttgccga 780  
gcacagccag agggatgacc ggtggctgct ggtggcactc ctgggtgccaa cgtgtgtctt 840  
tttgggtggtc ctgcttgac tgggcatcgt gtactgcacc cgctgtggcc cccatgcacc 900  
caacaagcgc atcactgact gctatcgctg ggtcatccat gctgggagca agagcccaac 960  
agaacccatg cccccaggg gcagcctcac aggggtgcag acctgcagaa ccagcgtgtg 1020  
atgggggtgca gacccccctc atggagtatg gggcgctgga cacatggccg gggctgcacc 1080  
agggacccat gggggctgcc cagctggaca gatggcttcc tgctccccag gccagccag 1140  
ggtcctctct caaccactag acttggtctc caggaactct gcttcctggc ccagcgtctg 1200  
tgaccaagga tacaccaaag cccttaagac ctcagggggc ggggtgctggg gtcttctcca 1260  
ataaatgggg tgtcaaccgt ttaaaaaaaa aaaaaagggc g 1301

<210> 2

<211> 5679

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 411448

<220>

<221> unsure

<222> 1657-1658, 1663, 1667, 1672, 1675

<223> a, t, c, g, or other

<400> 2

agcccccaac cccccgagc cactcacctc ccccaactac ccaggacaga ggatgcccag 60  
ccagccgagc tccgggcagt acccgcccc cacgggtcaac atggggcagt attacaagcc 120

1053416 01402

agaacagttt	aatggacaaa	ataacacggt	ctcgggaagc	agctacaagt	aactacagcc	180
aaggggaatgt	caacaggcct	cccaggcccg	tctctgtggc	aaattacccc	cactcacctg	240
ttccaggga	ccccacaccc	cccatgaccc	ctgggagcag	catccctcca	tacctgtccc	300
ccagctcaaga	cgtcaaacca	cccttcccgc	ctgacatcaa	gccaaatatg	agcgctctgc	360
caccaccccc	agccaaccac	aatgacgagc	tgcggctcac	attccctgtg	cgggatggcg	420
tggtgtctgga	gcccttccgc	ctggagcaca	acctggcggt	cagcaaccat	gtgttccacc	480
tgcggccccc	gggtccaccag	acgctgatgt	ggaggtctga	cctggagctg	cagttcaagt	540
gctaccacca	cgaggaccgg	cagatgaaca	ccaactggcc	cgcctcgggt	caggtcagcg	600
tgaacgccac	gcccctcacc	attgagcgcg	gcgacaacaa	gacctccac	aagccccctg	660
acctgaagca	cgtgtgccag	ccggggccgca	acaccatcca	gatcacccgt	acggcctgct	720
gctgttccca	cctcttcgtg	ctgcagctgg	tacaccggcc	ctccgtccgc	tctgtgtgct	780
aaggactcct	caagaagcgc	ctcctgcccc	cgagcgactg	tatcacgaaa	atcaagcgga	840
atttcagcag	cgtggctgcc	tctctgggca	acacgaccct	caacggggag	gatggggtgg	900
agcagacggc	catcaagggt	tctctgaagt	gccccatcac	attccggcgc	atccagctgc	960
ctgctcgagg	acacgattgc	aagcatgtgc	agtgtcttga	tctggagtca	tacctgcagc	1020
tgaattgcca	gagagggacc	tggaggtgtc	ctgtgtgcaa	taaaaccgct	ctgctggagg	1080
gcctggagggt	ggatcagtag	atgtggggaa	tcctgaatgc	catccaacac	tccgagtttg	1140
aagaggtcac	catcgatccc	acgtgcagct	gycggccggt	gccccatcaag	tcggacttac	1200
acatcaagga	tgacctgat	ggcatccct	ccaagcggtt	caagaccatg	agtcccagcc	1260
agatgatcat	gcccgaatgt	atggagatga	tcgcagccct	gggccccggc	ccgtccccct	1320
atccccctccc	gcctccccca	gggggaccca	actccaacga	ctacagcagc	caaggcaaca	1380
actaccaagg	ccatggcaac	tttgacttcc	cccacgggaa	ccctggaggg	acatccatga	1440
atgacttcat	gcacggggcc	ccccagctct	cccaccccc	ggacatgccc	aacaacatgg	1500
ccgcctctga	gaaacccctc	agccacccca	tgcaggaaac	tatgccacac	gctggcagct	1560
ctgaccagcc	ccacccctcc	atacaacaag	gtttgcacgt	accacacccc	agcagccagt	1620
cagggcctcc	attacatcac	agtggggctc	ctcctcnnca	tcnttcncag	cntcncgggc	1680
agccgccaca	ggccgctccc	agcagccatc	cacacagcga	cctgaccttt	aacccccct	1740
cagccttaga	gggtcaggcc	ggagcgcagg	gagcgtccga	catgccggag	ccttcgctgg	1800
atctccttcc	cgaactcaca	aatcctgacg	agctcctgtc	ttatctggac	ccccccgacc	1860
tgccgagcaa	tagtaacgat	gacctcctgt	ctctatttga	gaacaactga	ggggccaccg	1920
gtcggggccca	tcctctccca	ctctgcaccc	tacccccact	acccaacaca	cttttccacc	1980
tgggagcctg	tgccctcaga	ccgccccgca	ccagagccac	gggctgtggg	gcggggagcc	2040
ctcccccgct	gcagccctct	cagaacagag	gggtagggag	ggtgcaccag	tgcaccagga	2100
aggctgtgtg	ggtctggagc	ccacgtccca	cctccacacc	cttggcttgg	gccccatgcc	2160
agcgcaggcc	tgaagaccac	cctccccgaga	ggaaccagcc	cggtaaagagg	gcacacgctg	2220
atgcggcttc	ccggtccctc	cgctgtgtgc	gattccaaat	gaccttccag	tgtccccaa	2280
gttcttccat	cttctagact	gtaaccctgc	ctccctgctt	cctgggtccag	agcctccctc	2340
cagtactgt	ggagcctgag	aaggcccccg	ggccccagca	tgggccccga	gccttggagg	2400
agcactggca	gttgggtgca	gtgagaccag	gccacccacc	accacccacc	acagaaaagc	2460
acaaacctct	gggaaagaca	acgtctctcg	ggggccaggg	gtcatcgggt	tgacccctga	2520
ccataagcc	aagatacccc	ataaacacac	tcagaaagca	gagaaaaagg	acaagagtct	2580
gtgtttgaga	gggggtctgc	cattcctgct	tggggactgg	tggggaagag	ggccagacat	2640
cttctgagcc	agacgtccct	gaggtccacc	tccaagctca	gacaggccca	ggctttggga	2700
acagagagag	caggtgaaca	cccaaccaa	gtgattgtgc	ccttgggttg	ggggcgcggg	2760
catataacct	gtcagaagca	aacaggagcg	gcaacttcta	actttgtctc	aagccactct	2820
ctttttaaac	agcaacaatt	taaagctatg	aagtcacctg	gagaaaagga	acgttgctct	2880
tggacagcaa	gcaaaccatt	tctctccgct	tgttctgttt	ttctcctagt	acctcacctg	2940
ccacctctcc	aagacttccg	tgggacaccc	acttccctct	gtcctagttc	tctttgtcca	3000
atcagatggc	aagggcagtg	cgtggaaagg	ccggggaggt	gcagaaacca	gagccaggg	3060
caatggtgtc	tgtccagccc	ctccctctgt	ccctgtgtct	caagcctgtc	ccccggctgc	3120
agcccaggcc	atggacatgt	gcaccagtat	gtacctgcag	gcacaggggg	gagggggggc	3180
tgtttctggg	cctgccccag	actactgcc	ttggctgcca	gcctaccctg	cctgcactcc	3240
tccaccatca	caatctcacc	caaactcctg	ctcactcaag	caaaagcagc	ctctggcctt	3300
ccctccaccg	ctttgtctca	tctggcttac	cactctccag	ggcctcctgg	ggagcctgtc	3360
ctgtgttcac	tttgtttcag	gctgggtctgt	gccccgtgag	ccacatggcc	tagggtagat	3420
ccagggtgtc	ccgtcactgg	ggtcccatct	gtaaattctt	tgcgcccttc	ccggctgctg	3480
cctggggccc	tttctgtctc	tcccgccgc	tgtgggtggg	ccccagcact	cctctgtggg	3540
ttttaccgga	aagggtggccc	cagctgttga	cttccagctc	ctgtcccaga	cggcacaagg	3600
ttttctgtag	gaaagctgcc	attgcccccg	ccccctttct	tcctttgtcc	cgttgtcgag	3660
gttttttcaa	atagcgtgtt	gttcagtag	caaatcaatt	attttaagaa	tcgcttttgt	3720
aaatatcttt	gtgaatat	tagtatcgtc	tttgataata	ttcaacattt	tcacagcctg	3780
gttatagcct	ttgtgtgtgt	ttttaaaata	cctggactca	atgacaaaga	ccgagtcctc	3840
tttgtgttct	ttaaacaaaa	acaaaaaaag	caaccagggc	tatttgtaca	gttgaagggg	3900
tgaacagaat	gggcggtgtg	gctgggagtt	ggaagaccgg	gcagcccgtc	atttagagcc	3960
atccctcagt	cagctggcag	ggacaagcca	acgccaggta	gcagtggtgg	acccttgccc	4020
agtgtctgtg	gcctggcaag	tggccacgcc	ctgtgtcaga	ccatctggga	attaagctcc	4080

agacagactt	acagatgcct	tccttaggag	ttcttgcttc	ttgcgttgat	actttgcccc	4140
agaaaggcct	gggattcatt	ctgggttctta	tcaggggtgtg	tccacactct	gctcacaggt	4200
ggatccacgg	ctttccagtg	cagagagtcg	agatgctccc	tgcagcccag	gccccgggca	4260
cctcctgcaa	ccatctctgg	gctcagcacc	tgaggcggt	ttcctgggtc	ccctctccag	4320
caagcctcca	ccagcaagct	cggcccagag	cttcccttcc	ggctggctct	gaaccgtgcg	4380
tggtgcctac	agcctgcagt	ctggagacaa	cctcttccgg	agtgctctgg	gagccaggcc	4440
aggggtgtgag	ggaggtgcag	aggcatccgg	ggcgggagca	agccccaggt	tgtgacaggt	4500
gcaggtagac	aacgcccata	aacagagatg	gtcctgaact	ctggagagat	ccttccctga	4560
tcctttcggga	cgactacttg	gagccataag	taacctcagc	aaaaacgagg	cctctgcaag	4620
ccacttttcc	atgccaaagca	tccacccggc	ccacaggcat	gtttctgccg	ccactccgca	4680
agatggacag	ggagccagca	ggcaggcggg	aaggggcaag	tacaggcaat	cacccccatc	4740
ttcttggttt	gaagctttat	ccatgtatca	tgttccgtgt	agccatttta	ttttttaaga	4800
aactgctaata	actttctccc	taatggaagc	cctgatcccc	cagagagcta	caggtctgct	4860
cccgcggggc	ctcgggcctg	acccgtccac	acagggccgt	gtcaacagca	gcgactcaag	4920
ggacgtgtgt	acatatgtaa	atgagaaata	gagacgtgtc	aacagatgca	ttcattttctc	4980
ttggaatgtg	tattgttttt	attttgcgaa	acaaaacaaa	acaaaaaaaa	aagcttggaa	5040
ctccatcacg	tggaaaaact	agatcctgtt	ggttatagca	tttgtgagtt	ctccacgtct	5100
gtctctctcg	ctcatgtaat	atactctgac	cctgagtggg	aaggggtttt	tgttctgttt	5160
ttattttacc	tacatgtact	atttagcttc	agtgtactag	tccctgccacc	tgtgtatttt	5220
taggggtgcta	tggaaataat	gaaaagaaac	ggggatttca	gaagaaaatt	gtaaccaaatt	5280
tcatactttg	tataattttt	gatatcatga	tcacagggtga	ttcacacgta	cacacataaaa	5340
cacaccacc	agtgcagcct	gaagtaactc	ccacagaaac	catcatcgtc	tttgtacatc	5400
glatgtacaa	tgcaatcatt	tcatacttta	aactgggtcaa	aaaactaatt	gtgattttcta	5460
gtcttgcaaa	gctgtatgta	gtgacaacct	gtgcaacct	ctaataattta	tctaataaat	5520
atgtattcag	atgaaacctg	tatatagggt	tttcatgtgg	ttatttttga	tttaaagattc	5580
aaattatttg	actattgcta	gacattttcta	tactctgttg	taacactgag	gtatctcatt	5640
tgcccatgtt	aatttttttc	taaataaatt	gacaaaaac			5679

&lt;210&gt; 3

&lt;211&gt; 3513

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 454163

&lt;400&gt; 3

cggggaggaa	ggagtgtgca	gagtgtcacc	attcaggtgt	cctgggaaag	atgaaagcac	60
ccccgccaa	aagacagaca	ttccctggcg	gctgaagcag	atgctggata	tcctgggtgta	120
tgaagagcag	cagcaggcgg	ccgcgggggtg	aggcagggcc	ctgcctggag	tacctgctgc	180
agcacaaagat	cctggagact	ctctgcacgc	tgggcagggc	cgagtacccc	ccaggcatgc	240
ggcagcaggt	gttccagttc	ttcagcaagg	ttctggcgca	ggtgcagcac	cccctgctgc	300
attacctcag	cgtccacagg	cctgtgcaga	aactcctccg	acttggtggg	actgcttccg	360
gatccgttac	agaaaaggag	gaggtgcagt	tcaccaccgt	cctctgctcc	aagatccagc	420
aggaccacaga	gctgctcgcc	tacatcctgg	aaggtaaaaa	gattgtaggt	aggaagaaag	480
catgcggaga	acccactgcc	ctgcctaagg	acacaaccag	ccacggggac	aaggactgct	540
cccacgatgg	tgctcctgcc	aggcccagc	tggacgggga	gtcctgtggg	gccaggcct	600
tgaacagcca	catgcctgct	gagaccgagg	agctggacgg	tgggaccaca	gagagcaacc	660
tgattacctc	cctgcttggg	ctgtgccaga	gcaagaagag	tcgggtggcc	ttgaaggccc	720
aggagaacct	gctgctcctg	gtgagcatgg	cctccccagc	agctgccacc	tacctggtac	780
agagcagcgc	ctgctgccct	gcgatcgccc	ggcacctttg	ccagttgtac	cgggtccatgc	840
ctgtcttccct	ggaccccgcga	gacattgcca	ccttagaggg	catcagctgg	aggttacca	900
gtgccccgtc	tgatgaggct	tccttccctg	gcaaggaggc	cttggtgccc	ttcttggggt	960
ggtttgatta	ctgcgaccac	ctcatcacag	aggcacacac	ggtggttgcg	gacgccttgg	1020
cgaaggctgt	ggctgagaac	ttcttcctgg	agaccctgca	gccccagctc	ctgcacgtgt	1080
ccgagcagag	catcttgacc	tccaccgccc	tcctcacagc	catgctgcgc	cagcttcgct	1140
cccctgcgct	gctgcggggag	gccgtggctt	tcctcctggg	cacagaccgg	cagcctgaag	1200
ccccggggga	caacccccac	accctgtatg	ctcatctcat	cgggcattgt	gaccacctct	1260
ctgatgagat	cagcatcacc	acactccggc	tgtttgagga	gctgctgcag	aagccccacg	1320
aggggatcat	ccacagcctg	gtcctgcgca	accctgaggg	cgccttctac	gtggcctggg	1380
gctcaccaga	gcctgagagc	tatgaggaca	ccctagacct	ggaggaagac	ccctacttca	1440
ccgacagctt	cctggattcc	ggctttcaaa	ctcccgcaaa	gcctcgcccta	gctcctgcta	1500
ccagttacga	tggcaaaaaca	gcagtgaccg	agatcgtaaa	caggagtgcg	gctcccgct	1560
cgcctcctgg	ggctggcctc	tgacccccac	acctttggac	ccccatgagc	ccgagcgacc	1620
ttctctcgag	ggccacttcc	tccgagtgc	gtttgaccgc	atgtcccgga	ttctggatca	1680

gccatacagc ctgaacctgc aggtgacctc ggtcctgtcc cggttgccc ttttccccca 1740  
 cccccatatt catgagtacc tgctggatcc gtacatcagc ctggcccccg gctgcaggag 1800  
 cctattctcc gtgttgggtga ggggtgatcgg ggacttgatg cagagaatcc agaggggtacc 1860  
 ccagttccca ggcaagctgc tcttgggtgcg caacagttga cgggccaggc tcctgggggag 1920  
 cagctggacc accagaccct cctccagggc gtggtggtgc tggaggagtt ctgcaaggag 1980  
 ctggctgcca ttgcttctgt caagtttccc ccacatgac ctcgccagaa cgtctcccca 2040  
 gccccggaag ggcaggtctg agccagcacc agggcggtgg gagactcctg tccacacctc 2100  
 tgccccagag ctgcctcctg cctggcactg ccgccacact cccctcctgg gatggggctt 2160  
 ctgctcccg gctcactcaa ggagactgcg gcatgttgac cacaccagac tgggtttcag 2220  
 ggaatgggca tgccagggtgc caaggagcca aacagatggc tttccaggca gcaagggtcct 2280  
 tggggccttc ttggaggagc ttgggtgaca gccaggtgag caccagacc ccagaccctc 2340  
 atgtgctgtg tgccctggcc cttctgtact ggccatttgg ggccagggcc aagcctgtga 2400  
 ctcaactcca ggggcaagat ggggagttag ctgatggctc cgagactggt caggagccca 2460  
 ggccagttag atggggcctg gagccttgtc tgtgtcacat taggtaccat gggagctgct 2520  
 gagacctgac attttgtccc ctgcctacat ggcttggccc atggagaagg agcagtgaat 2580  
 gggatcgtcg gggaagcccc tcttctgtct ctgctcccct ggaaactgtt gcaaaactcc 2640  
 cagccgcctc atggcaaatg cccaaagcat gttccgcacc caggcggggg cccctgctaa 2700  
 tgagaacctt ggtgcagctg cagccaggag gggagcgggc ccaggagcca ggctcaggtc 2760  
 cagctggttc ctctctggcg ccttctgaac ccgtctcagc aggtccacag cacctgggca 2820  
 gaggtcagag accaggggag gccgggcctt gccctccctt ctgccaggg cccagtgttc 2880  
 ttgatagaag acccttctgg ggagccaggg agctcagggg acagataagg gaaggacgcc 2940  
 ccctgactcc agggccctga gcctggcggg aagtggctgc ggcccaggca gccagtcctg 3000  
 gtgggttctt ccttgcctgc cctccgtggc tgggtgcca cccacccgg cccgaatctg 3060  
 tcttgacctg caggaataca cgggcggcgc caggcattac ctacagcgg gactacacag 3120  
 ttgctggctt tgctcctggg caaggagag caggccagag cctcttttgc ttccttttct 3180  
 tgcccatgcc gcttctagaa gccaggcaca ggttgccaag aggtgacacg aaacaggagg 3240  
 aaactcagtg acctctgcct ctcccacatt cctccccgcg ggggaggacc tcgccgtctc 3300  
 gaagagcacc gtgcacatgt ggggtgcacaa acgtgggtgt tgggtgtggac ggggcgcaga 3360  
 tctccgtgga tgaactgcgt ctggactcct agattcataa aatattcgag ggtttgggag 3420  
 tcacagacc tcccctctcc tcagtgcact ttggcatttg caggtgtct tccccggaca 3480  
 gcacagcaat aaatggtgtg attgcgtgga aaa 3513

&lt;210&gt; 4

&lt;211&gt; 2970

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 988966.17

&lt;400&gt; 4

gtgggtacaa gatgacggag ccggggcgct ctcccaggga cccttgggtc aaggcaagcc 60  
 ccgtggggcg gcacgccggc gaggggaggg cgggtcgggc tcgtgcacgt agggggggccg 120  
 gaagacgagg ggcttccctc ctgtcccca aagtcacac gctctccgtg ccccggggct 180  
 gcagagaaga cagctctcac ccgcgctgtg ccaagggtgga gtatgcctac agcgacaaca 240  
 gcctggacc cgtgatgag gacagtgatt accaccagga ggctacaag gagtccctaca 300  
 aagaccggcg gcggcgcgca cacactcagg ctgagcagaa gaggaggag gccatcaaga 360  
 gaggtatga tgaccttcag accatcgctc cacttgcca gcagcaggac ttctccattg 420  
 gctcccaaaa gctcagcaaa gccatcgctt taaaaagac cattgactac attcagtttt 480  
 tgcacaagga gaagaaaaag caggaggagg aggtgtccac gttacgcaag gatgtcaccg 540  
 ccctaaagat catgaaagtg aactatgagc agatttgtga ggacaccag gacaaccccc 600  
 atgaagggga ggaccagggt tctgaccagg tcaagttcaa cgtgtttcaa ggcatcatgg 660  
 attccctgtt ccagtccttc aatgcctcca tctcagtggc cagcttccag gagctgtcag 720  
 catgtgtctt cagctggatc gagggagcact gtaagcctca gacctgcgg gagattgtga 780  
 ttggcgtcct gcaccaattg aaaaaccagc tttactgacc ggttcttggg aacctggaga 840  
 acagccaaca agaggccctt gaattcttac gtggccactg aactgctggg cccgggagac 900  
 tggactacaa cacctcacac tggtcagctg gtttctactt ggtgtttggt ttttccagc 960  
 cccattttat cttcagcgga gccgcggtgt ttgttttggg aaagcttctg attaatattat 1020  
 tatattgacg ataaaaactca aacctccccc gcttccccc cactccatgg aagtccttgg 1080  
 gatgggcgtc tgctctggac accccaaaga gtcctgccc tctcagccct ttattcaagc 1140  
 ctacagattt tgctcatgat ctacatagat ttggaaactg ttttctctg ttttgggtctc 1200  
 ttgggcaaca tttttggccc aagtttgggc aacatttggc ccaagtttgg gcattttggc 1260  
 agtagctgta tgggagaaaa agagtaagag gaaatattcc cacagccatg aagggtgaaa 1320  
 gggcaccttg tgccatgact agggctgcct ggtcagtcct aggtgaggcc aagggtcttc 1380  
 tggccatctc agggaggggc caccagggtc cccccctcac cccatattcc atcaccttcc 1440

tcctctgctc tgggtggtaa gggaagccct cccggttccc acaggctatg atgctgcatg 1500  
 gcagaggcag gtataacaca gctactacata ttggaaattht tttattttttc taaataccaa 1560  
 tgcagttttg ctacggttac aatttttgaaa tattaactga gcctcaaaat caccctttct 1620  
 gccaagcata tcttgccctc tcccatgtct cagtgttgcc tgcattttct ccaggacttg 1680  
 ggggtggggg gaaaagcgta caaaagatac ttaaaagggc tcttggggta cacaagccca 1740  
 gcaggtcctg agtgaagccg tgggcccctc aaatgctcgt tttatagcaa cctctctcta 1800  
 ccctagttct ccaaattcac ttctgccttc ctgaggtttg atatctggca ggtttgacta 1860  
 tccagaggaa attaaatatt tttatataaa attaaattat aataaatatt gccaaatgct 1920  
 ttccttttagc attgttccaa gtctaaatgt taacctcaag ctactgcaat ttagacaatg 1980  
 aaatgggctg ggtctacccc cagccaccag ccctcatcct ctctacccag tgctctgggt 2040  
 tatgcttgct tcctgactgc tctgcttaaa ggtgaaagta gcaggaacaa caacaaaagc 2100  
 caaccaaata caagtgactgc agtgcaagac atctcactct tctgacatcc tgcagtcccc 2160  
 accagtctct accgtggggc cctcaggggt ctgggagtgat gacgttgtaa tcttcatccg 2220  
 tctctatccc aacttcctca aagaactgct tcttgctctt ggggtatcct tcaagtattg 2280  
 catcagacag ctctgtagcc atcctcttcc tcttctctca ctcttacag tacttctgcc 2340  
 tctctctgta cactgtctct ttctcttctg gagtcacatg attggtagct gctttaatgt 2400  
 tcttcaatct ctctctgtag ccagcggcat tccttcttta actcctggat ttctttctgc 2460  
 atctctgggt tggtcagggc actagataat tccttgagct cagcctccat gttagcggcag 2520  
 ctctgctgca agctctgcac cttagcagtg agggccacga ttttgccatc taggacttga 2580  
 aggtcagcat cactcaccat gtcaaactgg tcctgatccg caaaatagat cttctgcttg 2640  
 ccgtacatct tctctttgat ctgacctgtg tgcgccagct gctccagcgt cttcaccacc 2700  
 accgccttgc ccagtccgtg ttcccgtgtg aggttccccg acacatcctg ggagctgtag 2760  
 ggcgggttct gctcctgcag gtacctcagg aggtccccg cggctccccg cgcagcttct 2820  
 gcccgccctt tactcatcgc ctttccccgc acccaactca gaaagccgga cgttgtagtt 2880  
 ggtggtccgg gcgcggtagc gggctcgtgg aaaaacccgg tctggtgtgc tgatgcctgg 2940  
 tctgttgggt cgttttggga tcaccttgat 2970

&lt;210&gt; 5

&lt;211&gt; 1671

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 254749.3

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 16

&lt;223&gt; a, t, c, g, or other

&lt;400&gt; 5

ctggtcgtcg tctgcngcgg ctgcggcggc tgaggagccc ggctgaggcg ccagtacccg 60  
 gcccggtccg catttccgcc ttccggcttc ggtttccctc ggcccagcac gcccgggcc 120  
 cgcccagcc ctctgatcc ctgcagccc ggtccggcc gccgcctct gccgccgaa 180  
 tgatgatgat ggcgctgagc aagaccttcg ggcagaagcc cgtgaagttc cagctggagg 240  
 acgacggcga gttctacatg atcggctccg aggtgggaaa ctacctcgt atgttccgag 300  
 gttctctgta caagagatac ccctcactct ggaggcagct agccactgt gaagagagga 360  
 agaaaatagt tgcatcgtca catggtaaaa aaacaaaacc taacactaag gatcacggat 420  
 acacgactct agccaccagt gtgacctgt taaaagcctc ggaagtggaa gagattctgg 480  
 atggcaacga tgagaagtac aaggctgtgt ccatcagcac agagcccccc acctacctca 540  
 gggaacagaa ggccaagagg aacagccagt gggtagccac cctgcccac agctccacc 600  
 acttagatgc cgtgccatgc tccacaacca tcaacaggaa ccgcatgggc cgagacaaga 660  
 agagaacctt ccccttttgc tttgatgacc atgaccagc tgtgatccat gagaacgcat 720  
 ctgagcccga ggtgctggtc cccatccggc tggacatgga gatcgatggg cagaagctgc 780  
 gagacgcctt cacctggaac atgaatgaga agttgatgac gcctgagatg ttttcagaaa 840  
 tctctgtgta cgatctggat ttgaacccgc tgacgtttgt gccagccatc gcctctgcca 900  
 tcagacagca gatcgagtcc taccacacgg acagcatcct ggaggaccag tcagaccagc 960  
 gcgtcatcat caagctgaac atccatgttg gaaacatttc cctggtggac cagtttgagt 1020  
 gggacatgtc agagaaggag aactcaccag agaagtttgc cctgaagctg tgctcggagc 1080  
 tggggttggg cggggagttt gtcaccacca tgcatacag catccgggga cagctgagct 1140  
 ggcacagaa gacctacgcc ttacgcgaga accctctgcc cacagtggag attgccatcc 1200  
 ggaacacggg cgatgcggac cagtgggtgc cactgctgga gactctgaca gacgctgaga 1260  
 tggagaagaa gatccgcgac caggacagga acacgaggcg gatgaggcgt cttgccaaca 1320  
 cggcccccgc ctggttaacca gcccatcagc acacggctcc cagggagcat ctcagaagat 1380  
 tgggccgcct ctctccatc ttctggcaag gacagaggcg aggggacagc ccagcgcct 1440

```

cctgaggatc ggggtgggggt ggagtggggg cttccaggtg gcccttcccgc gcacacattc 1500
catttggtga gccccagtc tgccccccac cccaccctcc ctaccctcc ccagtctctg 1560
gggtcaggaa gaaaccttat tttagggtgt gttttgtttt tgtataggag ccccaggcag 1620
ggctagtaac agtttttaaa taaaaggcaa caggtcatgt tcaatttctt c 1671

```

&lt;210&gt; 6

&lt;211&gt; 635

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 411448

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 552, 554, 557-558

&lt;223&gt; unknown or other

&lt;400&gt; 6

```

Pro Pro Thr Pro Arg Gly His Ser Pro Pro Pro Thr Thr Gln Asp
1 5 10 15
Arg Gly Cys Pro Ala Ser Arg Ala Pro Gly Ser Thr Arg Pro Pro
20 25 30
Arg Ser Thr Trp Gly Ser Ile Thr Ser Gln Asn Ser Leu Met Asp
35 40 45
Lys Ile Thr Arg Ser Arg Glu Ala Ala Thr Ser Asn Tyr Ser Gln
50 55 60
Gly Asn Val Asn Arg Pro Pro Arg Pro Val Pro Val Ala Asn Tyr
65 70 75
Pro His Ser Pro Val Pro Gly Asn Pro Thr Pro Pro Met Thr Pro
80 85 90
Gly Ser Ser Ile Pro Pro Tyr Leu Ser Pro Ser Gln Asp Val Lys
95 100 105
Pro Pro Phe Pro Pro Asp Ile Lys Pro Asn Met Ser Ala Leu Pro
110 115 120
Pro Pro Pro Ala Asn His Asn Asp Glu Leu Arg Leu Thr Phe Pro
125 130 135
Val Arg Asp Gly Val Val Leu Glu Pro Phe Arg Leu Glu His Asn
140 145 150
Leu Ala Val Ser Asn His Val Phe His Leu Arg Pro Thr Val His
155 160 165
Gln Thr Leu Met Trp Arg Ser Asp Leu Glu Leu Gln Phe Lys Cys
170 175 180
Tyr His His Glu Asp Arg Gln Met Asn Thr Asn Trp Pro Ala Ser
185 190 195
Val Gln Val Ser Val Asn Ala Thr Pro Leu Thr Ile Glu Arg Gly
200 205 210
Asp Asn Lys Thr Ser His Lys Pro Leu His Leu Lys His Val Cys
215 220 225
Gln Pro Gly Arg Asn Thr Ile Gln Ile Thr Val Thr Ala Cys Cys
230 235 240
Cys Ser His Leu Phe Val Leu Gln Leu Val His Arg Pro Ser Val
245 250 255
Arg Ser Val Leu Gln Gly Leu Leu Lys Lys Arg Leu Leu Pro Ala
260 265 270
Glu His Cys Ile Thr Lys Ile Lys Arg Asn Phe Ser Ser Val Ala
275 280 285
Ala Ser Ser Gly Asn Thr Thr Leu Asn Gly Glu Asp Gly Val Glu
290 295 300
Gln Thr Ala Ile Lys Val Ser Leu Lys Cys Pro Ile Thr Phe Arg
305 310 315
Arg Ile Gln Leu Pro Ala Arg Gly His Asp Cys Lys His Val Gln
320 325 330
Cys Phe Asp Leu Glu Ser Tyr Leu Gln Leu Asn Cys Glu Arg Gly
335 340 345

```

Thr Trp Arg Cys Pro Val Cys Asn Lys Thr Ala Leu Leu Glu Gly  
 350 355 360  
 Leu Glu Val Asp Gln Tyr Met Trp Gly Ile Leu Asn Ala Ile Gln  
 365 370 375  
 His Ser Glu Phe Glu Glu Val Thr Ile Asp Pro Thr Cys Ser Trp  
 380 385 390  
 Arg Pro Val Pro Ile Lys Ser Asp Leu His Ile Lys Asp Asp Pro  
 395 400 405  
 Asp Gly Ile Pro Ser Lys Arg Phe Lys Thr Met Ser Pro Ser Gln  
 410 415 420  
 Met Ile Met Pro Asn Val Met Glu Met Ile Ala Ala Leu Gly Pro  
 425 430 435  
 Gly Pro Ser Pro Tyr Pro Leu Pro Pro Pro Gly Gly Thr Asn  
 440 445 450  
 Ser Asn Asp Tyr Ser Ser Gln Gly Asn Asn Tyr Gln Gly His Gly  
 455 460 465  
 Asn Phe Asp Phe Pro His Gly Asn Pro Gly Gly Thr Ser Met Asn  
 470 475 480  
 Asp Phe Met His Gly Pro Pro Gln Leu Ser His Pro Pro Asp Met  
 485 490 495  
 Pro Asn Asn Met Ala Ala Leu Glu Lys Pro Leu Ser His Pro Met  
 500 505 510  
 Gln Glu Thr Met Pro His Ala Gly Ser Ser Asp Gln Pro His Pro  
 515 520 525  
 Ser Ile Gln Gln Gly Leu His Val Pro His Pro Ser Ser Gln Ser  
 530 535 540  
 Gly Pro Pro Leu His His Ser Gly Ala Pro Pro Xaa His Xaa Ser  
 545 550 555  
 Gln Xaa Xaa Arg Gln Pro Pro Gln Ala Ala Pro Ser Ser His Pro  
 560 565 570  
 His Ser Asp Leu Thr Phe Asn Pro Ser Ser Ala Leu Glu Gly Gln  
 575 580 585  
 Ala Gly Ala Gln Gly Ala Ser Asp Met Pro Glu Pro Ser Leu Asp  
 590 595 600  
 Leu Leu Pro Glu Leu Thr Asn Pro Asp Glu Leu Leu Ser Tyr Leu  
 605 610 615  
 Asp Pro Pro Asp Leu Pro Ser Asn Ser Asn Asp Asp Leu Leu Ser  
 620 625 630  
 Leu Phe Glu Asn Asn  
 635

&lt;210&gt; 7

&lt;211&gt; 268

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 988966.17

&lt;400&gt; 7

Met Thr Glu Pro Gly Ala Ser Pro Glu Asp Pro Trp Val Lys Ala  
 1 5 10 15  
 Ser Pro Val Gly Ala His Ala Gly Glu Gly Arg Ala Gly Arg Ala  
 20 25 30  
 Arg Ala Arg Arg Gly Ala Gly Arg Arg Gly Ala Ser Leu Leu Ser  
 35 40 45  
 Pro Lys Ser Pro Thr Leu Ser Val Pro Arg Gly Cys Arg Glu Asp  
 50 55 60  
 Ser Ser His Pro Ala Cys Ala Lys Val Glu Tyr Ala Tyr Ser Asp  
 65 70 75  
 Asn Ser Leu Asp Pro Asp Asp Glu Asp Ser Asp Tyr His Gln Glu  
 80 85 90  
 Ala Tyr Lys Glu Ser Tyr Lys Asp Arg Arg Arg Arg Ala His Thr  
 95 100 105  
 Gln Ala Glu Gln Lys Arg Arg Asp Ala Ile Lys Arg Gly Tyr Asp

Asp	Leu	Gln	Thr	Ile	Val	Pro	Thr	Cys	Gln	Gln	Gln	Asp	Phe	Ser	110	115	120
Ile	Gly	Ser	Gln	Lys	Leu	Ser	Lys	Ala	Ile	Val	Leu	Gln	Lys	Thr	125	130	135
Ile	Asp	Tyr	Ile	Gln	Phe	Leu	His	Lys	Glu	Lys	Lys	Lys	Gln	Glu	140	145	150
Glu	Glu	Val	Ser	Thr	Leu	Arg	Lys	Asp	Val	Thr	Ala	Leu	Lys	Ile	155	160	165
Met	Lys	Val	Asn	Tyr	Glu	Gln	Ile	Val	Lys	Ala	His	Gln	Asp	Asn	170	175	180
Pro	His	Glu	Gly	Glu	Asp	Gln	Val	Ser	Asp	Gln	Val	Lys	Phe	Asn	185	190	195
Val	Phe	Gln	Gly	Ile	Met	Asp	Ser	Leu	Phe	Gln	Ser	Phe	Asn	Ala	200	205	210
Ser	Ile	Ser	Val	Ala	Ser	Phe	Gln	Glu	Leu	Ser	Ala	Cys	Val	Phe	215	220	225
Ser	Trp	Ile	Glu	Glu	His	Cys	Lys	Pro	Gln	Thr	Leu	Arg	Glu	Ile	230	235	240
Val	Ile	Gly	Val	Leu	His	Gln	Leu	Lys	Asn	Gln	Leu	Tyr			245	250	255
															260	265	